

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
10 November 2005 (10.11.2005)

PCT

(10) International Publication Number  
WO 2005/105915 A1

(51) International Patent Classification<sup>7</sup>: C08L 23/16, C08K 5/09

(21) International Application Number: PCT/IT2005/000236

(22) International Filing Date: 21 April 2005 (21.04.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: VR2004A000074 3 May 2004 (03.05.2004) IT

(71) Applicant (for all designated States except US): SO.FTER. S.P.A. [IT/IT]; Via Mastro Giorgio, 2, I-47100 Forli' (IT).

(72) Inventor; and

(75) Inventor/Applicant (for US only): CARFAGNINI, Italo [IT/IT]; Via Mastro Giorgio, 2, I-47100 Forli' (IT).

(74) Agent: SANDRI, Sandro; Europatent - Euromark S.r.l., Via Locatelli, 20, I-37122 Verona (IT).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/105915 A1

(54) Title: PLASTO-ELASTOMERIC COMPOSITIONS

(57) Abstract: An EPDM terpolymer and polyolefin based plasto-elastomeric composition containing the elastomeric phase partially or fully cross-linked, where for cross-linking it is possible to use, alternatively, an alkylphenol - formaldehyde non-halogenated resin or a phenol - formaldehyde non-halogenated resole resin, and where an aromatic carboxylic acid is used for cross-linking, in particular salicylic acid, fillers of mineral origin being added, either directly during the compounding step with cross-linking, or subsequently to the material that is already cross-linked, to achieve a total specific gravity of up to 2 kg/dm<sup>3</sup> with hardnesses ranging from ShA 40 to ShD 50. The fillers of mineral origin being in a quantity which may reach almost 90% by weight of the composition.